# CRYSTAL-P

## High Resolution 3-5µm FPA Thermal Imaging Sensor in a sealed, ruggedized housing

**CRYSTAL-P is a three FOV, high resolution Thermal Imaging sensor operating in the 3-5µm spectral band**, and packaged in an environmentally sealed housing.

### Applications

- Long Range Observation
- Night Sensor for E-O Surveillance Systems
- TI Sensor for Target Acquisition and Fire Directing Systems
- Add-on TI Sensor for Ground and Naval Radar Systems
- Night Sight for Air Defense Systems
- TI Sensor for Maritime/Coastal E-O Sensor Clusters

### Main Features

- 3-5µm Spectral Band
- InSb FPA Detector 256x256 elements
- Dual Axis Micro-Scan fields sampling resolution of 512x512.
- Miniature Closed Cycle Cooler, Integral with the Dewar
- Three FOVs
- Unique Non Uniformity Correction (NUC) Algorithms
- Outstanding picture quality
- Powerful Proprietary Image Processing ASIC
- Analog and Digital Video Outputs
- RS422 Serial Port
- Ruggedized and Sealed Housing

elop Electro-Optics Industries Ltd.

A Subsidiary of Elbit SYSTEMS

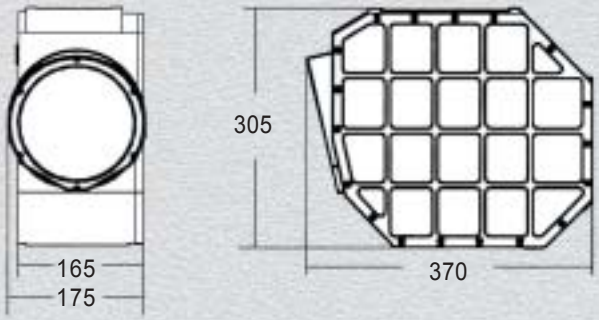
Catalog Number: 6418

# CRYSTAL-P

## High Resolution 3-5µm FPA Thermal Imaging Sensor in a sealed, ruggedized housing

## Technical Data

| | |
|---|---|
| **Spectral Band** | 3-5µm |
| **Entrance Aperture (main)** | 100 mm |
| **Fields of View:** | |
| • Narrow | 1.5˚ X 1.5˚ |
| • Medium | 5.25˚ x 5.25˚ |
| • Wide | 21˚ x 21˚ |
| **Power Requirements:** | |
| • Supply Voltage | 24 VDC nominal |
| • Power Consumption | ≤30 W |
| **Configuration** | Single unit |
| **Weight** | 11 kg |

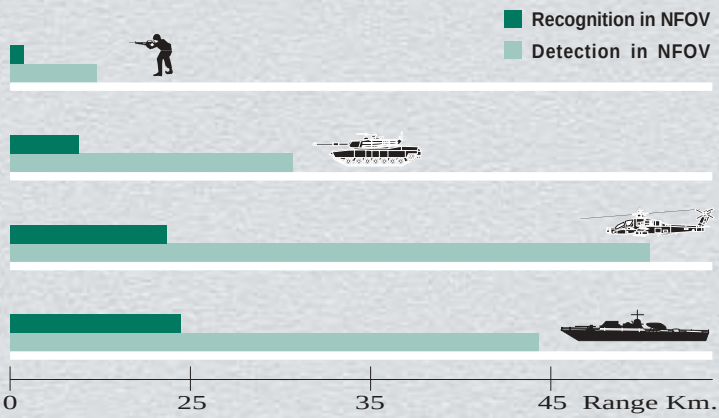



**Environmental:**

- Designed and Tested to MIL-STD-810
- Operating Temperature Range: -20˚C - +60˚C

**Reliability:** **MTBF:** > 2000 hours

## Range Performance




Note: Parameters may be altered to comply with customer specifications.

**EL-OP** - ELECTRO-OPTICS INDUSTRIES LTD. reserves the right to make such alterations in design, dimensions, specifications, and manufacture as are deemed necessary to ensure continued improvement.

elop
Electro-Optics Industries Ltd.

A Subsidiary of Elbit SYSTEMS

Advanced Technology Park, Kiryat Weizmann
P.O.B 1165 Rehovot 76111, ISRAEL
Tel: 972-8-9386741, Fax: 972-8-9386714
E-mail: elopti@netvision.net.il
Internet site: http://www.el-op.co.il

Sh.Or, E.M. CRISTAL-P 6/02